

Services of the San Francisco Public Utilities Commission

Budget & Finance Sub-Committee July 20, 2016

San Francisco Westside Recycled Water Project and Phase 2 Groundwater Supply Project

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Presentation Overview

- Westside Recycled
 Water Project
- Overview
- Construction
- Budget & Reserve Funds
- San Francisco
 Groundwater Supply
 Project Phase II
- Overview
- Construction

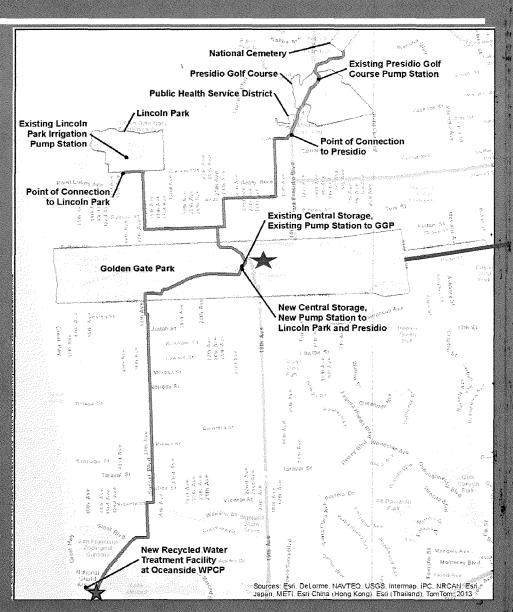
HETCH HETCHY LOCAL WATER

Better together.



Westside Recycled Water Project - Overview

- Produce average 1.6 mgd;4 mgd peak production
- New treatment facility within Oceanside Plant
 - Major components sized for build-out peak production of 5 mgd
- 7.7 miles of new pipeline
- New reservoir and pump station in GGP





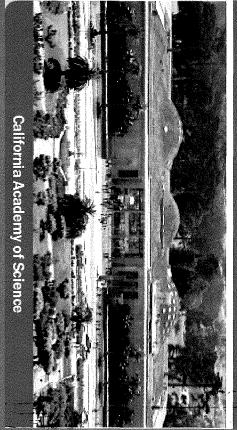
Recycled Water Proposed Customers & Uses of

Proposed uses/customers at project start-up:

- Irrigation of Golden Gate Park and Panhandle
- Filling ornamental lakes in Golden Gate Park
- Irrigation of Lincoln Park Golf Course
- Irrigation of Presidio Golf Course and other landscaped areas
- Potential Future
 Customers/Uses
- SF Z00
- Toilet flushing CAS, deYoung



Golden Gate Park





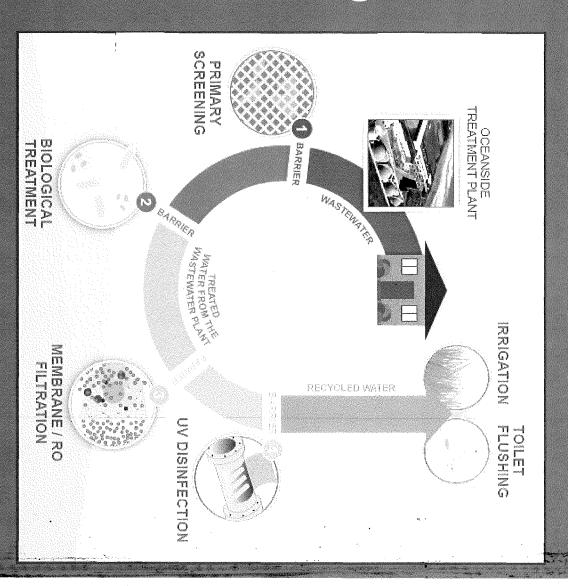
Water Quality Objectives & Golden Gate Park

- Golden Gate Park is the largest customer of recycled water (1.3 mgd)
- Water quality objectives set to meet the needs for park irrigation and lake-fill
- Targets established for salts, nutrients, and ammonia
- Reverse osmosis identified as the best available technology to meet all water quality goals



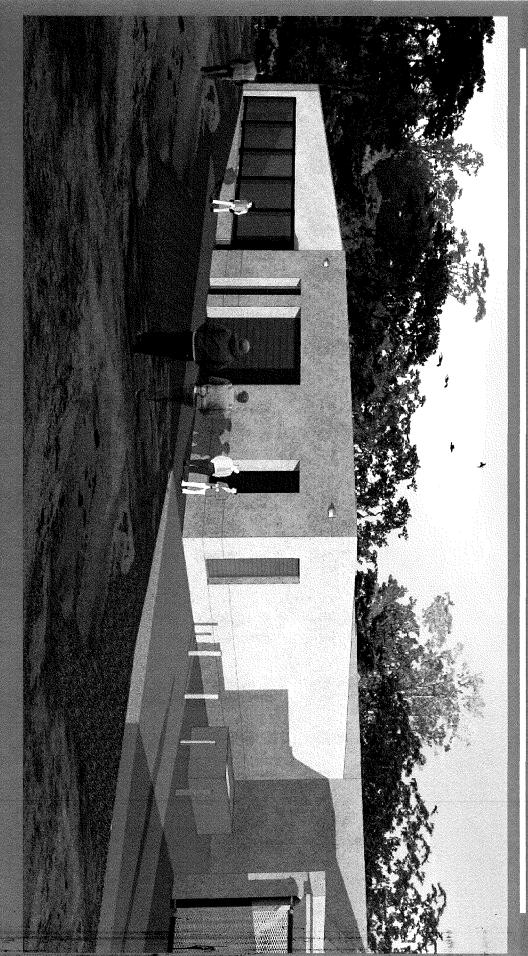
Recycled Water Treatment

- Oceanside Plant secondary effluent will be treated with:
- Micro/ultrafiltration (membrane filtration)
- Reverse osmosis (RO)
- Disinfection with ultraviolet (UV) light
- Recycled water will be very high quality





Recycled Water Pump Station in Golden Gate Park





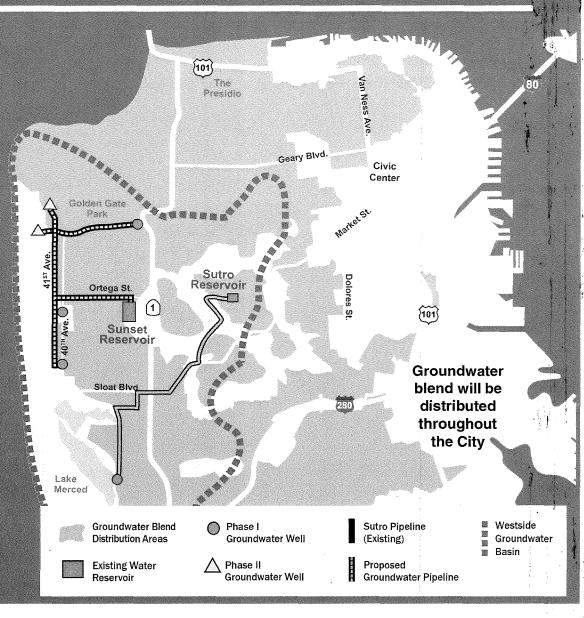
Westside Recycled Water Project Budget & Reserve Funds

Sources of Funds	Appropriation	Budget and Finance Committee Reserve
Water Enterprise Revenue Bonds		
Ordinance 53-08	\$3,457,718	
Ordinance 311-08	\$14,217,812	
Ordinance 92-10	\$110,146,222	\$91,608,000
Ordinance 230-11	\$29,219,000	\$29,219,000
Subtotal, Water Enterprise Revenue Bonds	\$157,040,752	\$120,827,000
Budget Appropriations		
FY 2016-17 Budget	\$21,306,000	·
FY 2017-18 Budget	\$6,500,000	
FY 2018-19 Budget	\$1,373,248	
Subtotal, Budget Appropriations	\$29,179,248	
Total	\$186,220,000	\$120,827,000



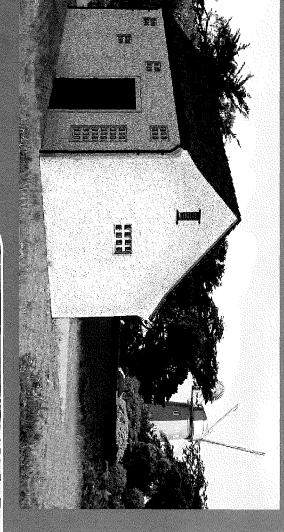
SF Groundwater Supply Project Overview

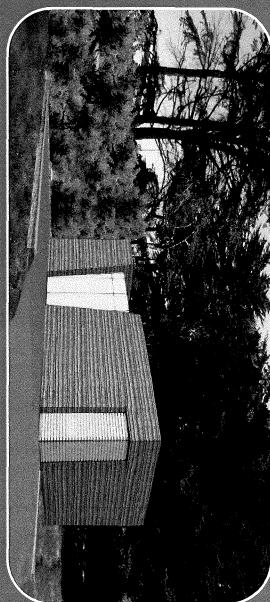
- Project will supply up to 4
 mgd of groundwater from
 the Westside Basin aquifer
 in San Francisco
- Pumping will start at
 1 mgd and slowly ramp up
 by approximately 1 mgd/yr
- Groundwater will be blended with SFPUC regional water supplies at 2 reservoirs
- Blended water will be distributed throughout the City





Groundwater Project Facilities







Groundwater is a High Quality Source

- Extensive monitoring of groundwater since 2000: high quality source of water
- A small quantity of groundwater will be blended in our reservoirs
- Water distributed to our customers will continue to surpass all drinking water standards





Groundwater Public Outreach Efforts

Ongoing public outreach since 2007

- "Currents" Newsletter (utility bill inserts)
- Planning Dept. mailings
- Fact Sheets
- Community Outreach
- Sampling Groundwater Blend





Groundwater

A Natural Source of Water Supply



Summary

Actions Requested:

- Adoption of CEQA Findings for the Westside Recycled Water Project
- Approval of Construction in Golden Gate Park
- Recycled Water Reservoir & Pump Station
- Phase II Groundwater Well Station Buildings
- Release of Project Reserve Funds



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Questions?

